

10/081,606

=>

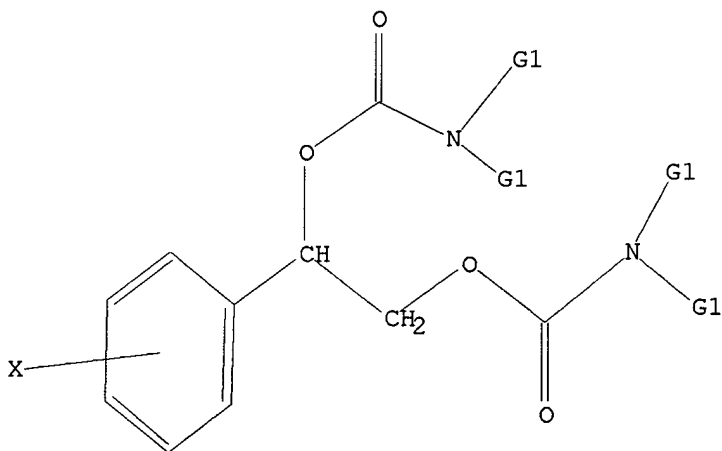
Uploading 10081606.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:46:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS
SEARCH TIME: 00.00.01

2 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

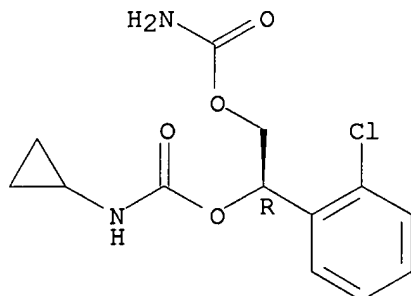
=> d scan 1-2

'1-2' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

L2 2 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI)
MF C13 H15 Cl N2 O4

Absolute stereochemistry. Rotation (+).

10/081,606



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of numeric properties
PROP - Same as CALC

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented,

10/081,606

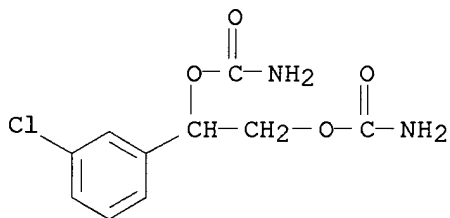
with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 2 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1,2-Ethanediol, 1-(3-chlorophenyl)-, dicarbamate (9CI)
MF C10 H11 Cl N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s 11 ful
FULL SEARCH INITIATED 13:46:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 371 TO ITERATE

100.0% PROCESSED 371 ITERATIONS 16 ANSWERS
SEARCH TIME: 00.00.01

L3 16 SEA SSS FUL L1

=> file ca,uspatful		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	141.04	141.25

FILE 'CA' ENTERED AT 13:47:14 ON 06 AUG 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 13:47:14 ON 06 AUG 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 13
L4 8 L3

10/081,606

=> dup rem 14

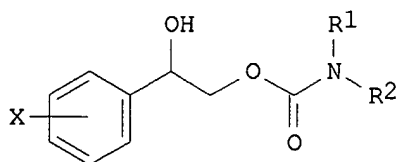
PROCESSING COMPLETED FOR L4

L5 6 DUP REM L4 (2 DUPLICATES REMOVED)

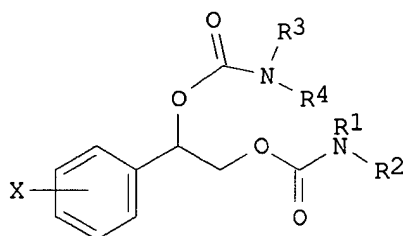
=> d 1-6 bib,abs,hitstr

L5 ANSWER 1 OF 6 CA COPYRIGHT 2002 ACS DUPLICATE 1
AN 135:331265 CA
TI Preparation of anticonvulsant halogen-substituted carbamate compounds from
2-phenyl-1,2-ethanediol
IN Choi, Yong Moon; Kim, Min Woo; Park, Jeonghan
PA Choi, Yong, USA
SO U.S. Pat. Appl. Publ., 8 pp., Cont.-in-part of U.S. Ser. No. 220,494,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001034365	A1	20011025	US 2001-774736	20010131
	US 5698588	A	19971216	US 1996-586497	19960116
	US 5854283	A	19981229	US 1997-781101	19970109
PRAI	US 1996-586497	A2	19960116		
	US 1997-781101	A3	19970109		
	US 1998-220494	B2	19981223		
OS	CASREACT 135:331265; MARPAT 135:331265				
GI					



I



II

AB Enantiomeric forms of monocarbamates [I; X = 1-5 halogen atoms selected from fluorine, chlorine, bromine, iodine; R1, R2 = H, (un)branched (un)substituted C1-4 alkyl, (un)substituted Ph; e.g., (DL)-[2-(2-chlorophenyl)-2-carbamoyloxyethyl]oxocarboxamide, m.p. 190.degree.] of halogenated 2-phenyl-1,2-ethanediol and dicarbamates [II; R3, R4 = H, (un)branched (un)substituted C1-4 alkyl, (un)substituted Ph] of halogenated 2-phenyl-1,2-ethanediols are prep'd. and have been found to be effective in the treatment of disorders of the central nervous system, esp. as anticonvulsive (e.g., ED50 = 33.7 mg/kg in a rat electroconvulsive assay) or antiepileptic agents.

IT 194085-58-0P 194085-67-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

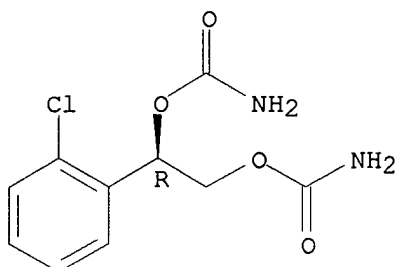
(prepn. of anticonvulsant halogen-substituted carbamate compds. from 2-phenyl-1,2-ethanediol)

10/081,606

RN 194085-58-0 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

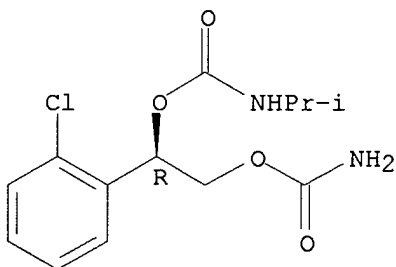
Absolute stereochemistry. Rotation (+).



RN 194085-67-1 CA

CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

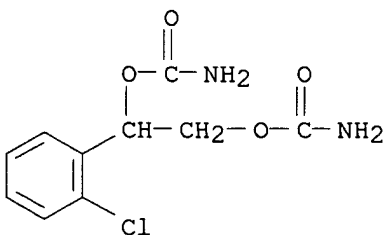


IT 194085-57-9P 194085-59-1P 194085-60-4P
194085-61-5P 194085-62-6P 194085-63-7P
194085-64-8P 194085-65-9P 194085-66-0P
194085-68-2P 194085-69-3P 194085-70-6P
194085-71-7P 194085-72-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of anticonvulsant halogen-substituted carbamate compds. from 2-phenyl-1,2-ethanediol)

RN 194085-57-9 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

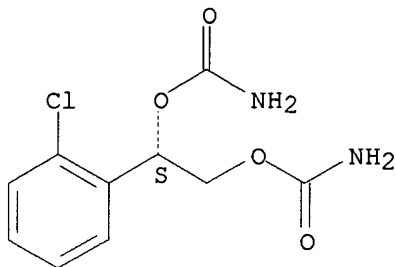


RN 194085-59-1 CA

10/081,606

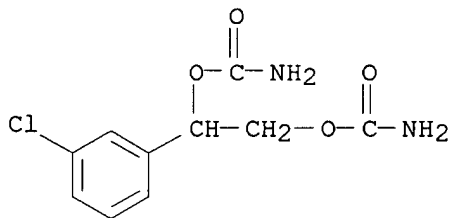
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



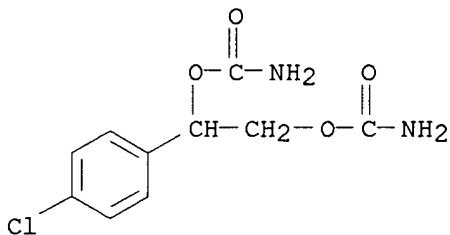
RN 194085-60-4 CA

CN 1,2-Ethanediol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-61-5 CA

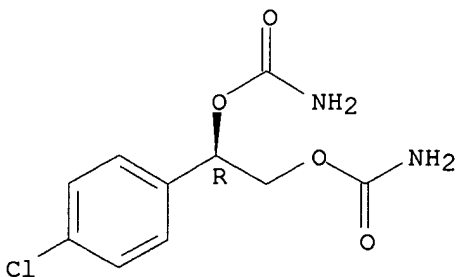
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-62-6 CA

CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

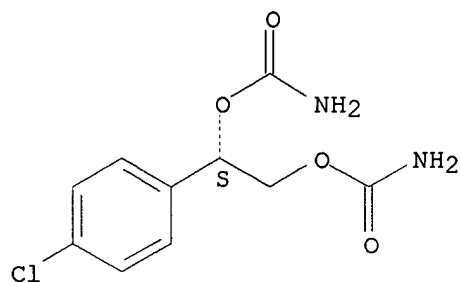


10/081,606

RN 194085-63-7 CA

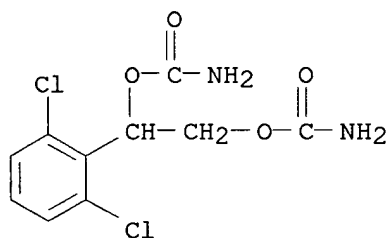
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 194085-64-8 CA

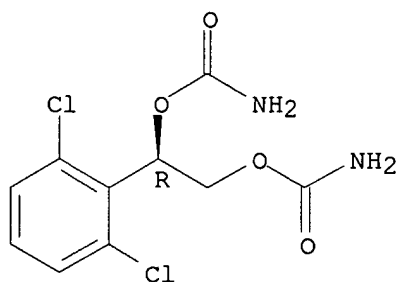
CN 1,2-Ethanediol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-65-9 CA

CN 1,2-Ethanediol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

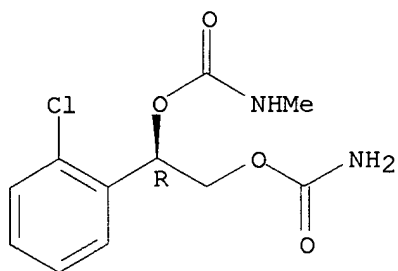


RN 194085-66-0 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

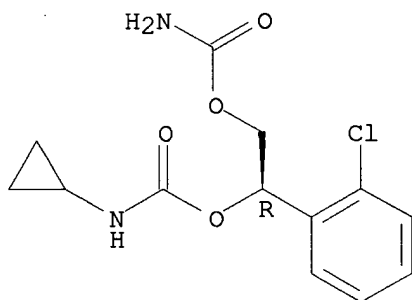
10/081,606



RN 194085-68-2 CA

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

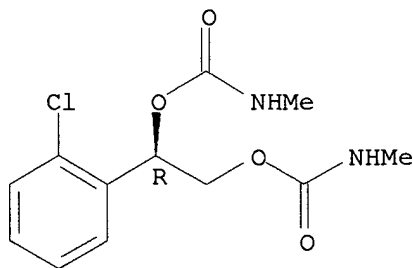
Absolute stereochemistry. Rotation (+).



RN 194085-69-3 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

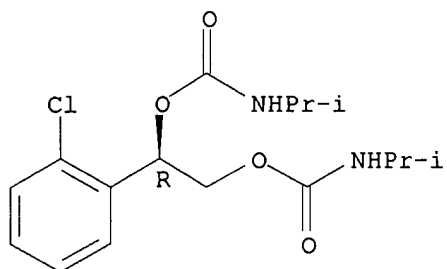


RN 194085-70-6 CA

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

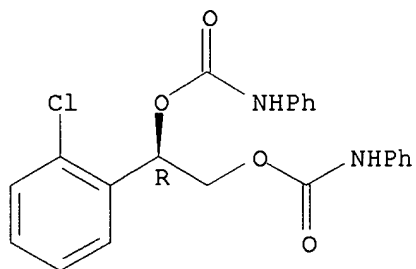
10/081,606



RN 194085-71-7 CA

CN 1,2-Ethanedione, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

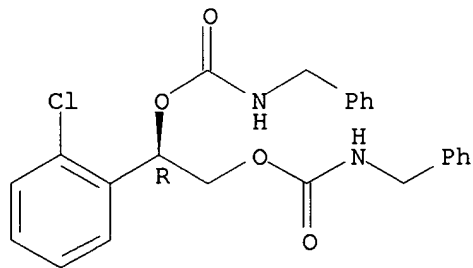
Absolute stereochemistry.



RN 194085-72-8 CA

CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 2 OF 6 USPATFULL

AN 2000:131884 USPATFULL

TI Halogen substituted carbamate compounds from 2-phenyl-1,2-ethanediol

IN Choi, Yong Moon, Towaco, NJ, United States

Kim, Min Woo, Montvale, NJ, United States

Park, Jeonghan, Flanders, NJ, United States

PA SK Corporation, Fairfield, NJ, United States (U.S. corporation)

PI US 6127412 20001003

AI US 1999-349852 19990708 (9)

RLI Continuation of Ser. No. US 1998-220494, filed on 23 Dec 1998 which is a
division of Ser. No. US 1997-781101, filed on 9 Jan 1997, now patented,

10/081,606

Pat. No. US 5854283, issued on 29 Dec 1998 which is a continuation-in-part of Ser. No. US 1996-586497, filed on 16 Jan 1996, now patented, Pat. No. US 5698588, issued on 16 Dec 1997

DT Utility
FS Granted
EXNAM Primary Examiner: Shippen, Michael L.
LREP Gibbons, Del Deo, Dolan, Griffinger & Vecchione
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 561

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

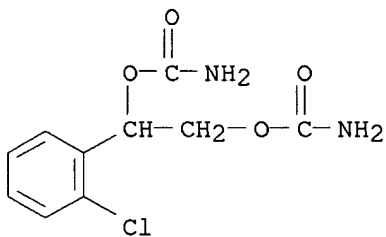
AB The optically pure forms of monocarbamates of halogenated 2-phenyl-1,2-ethanediol and dicarbamates of 2-phenyl-1,2-ethanediol have been found to be effective in the treatment of disorders of the central nervous system, especially as anti-convulsive or anti-epileptic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 194085-57-9P 194085-58-0P 194085-59-1P
194085-60-4P 194085-61-5P 194085-62-6P
194085-63-7P 194085-64-8P 194085-65-9P
194085-66-0P 194085-67-1P 194085-68-2P
194085-69-3P 194085-70-6P 194085-71-7P
194085-72-8P
(prepn. of 2-(halophenyl)-2-hydroxyethyl carbamate and dicarbamate antiepileptics and anticonvulsants)

RN 194085-57-9 USPATFULL

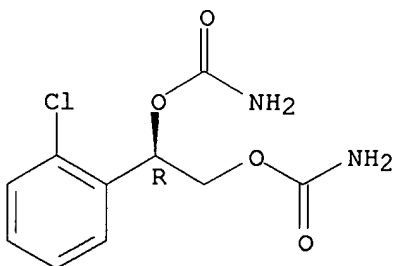
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-58-0 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



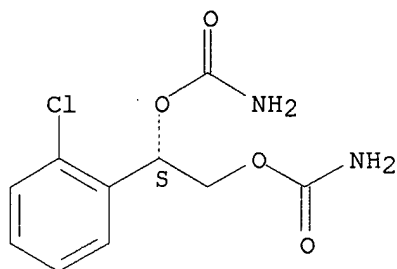
RN 194085-59-1 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

10/081,606

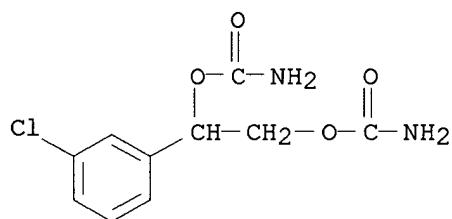
NAME)

Absolute stereochemistry. Rotation (-).



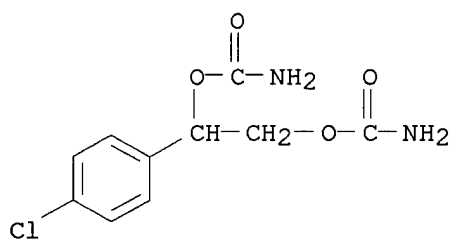
RN 194085-60-4 USPATFULL

CN 1,2-Ethanedithiol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-61-5 USPATFULL

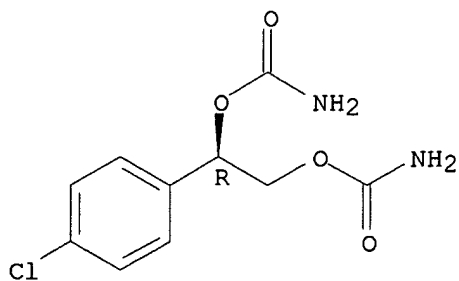
CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



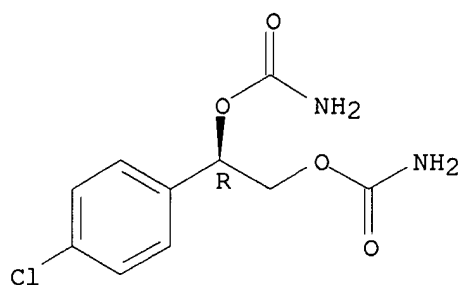
RN 194085-62-6 USPATFULL

CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



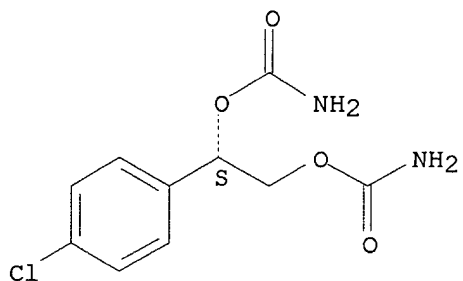
10/081,606



RN 194085-63-7 USPATFULL

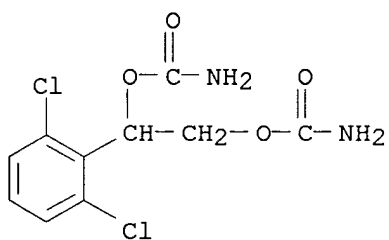
CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 194085-64-8 USPATFULL

CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

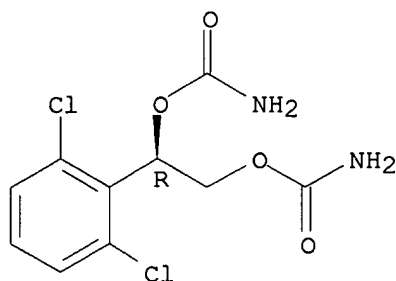


RN 194085-65-9 USPATFULL

CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

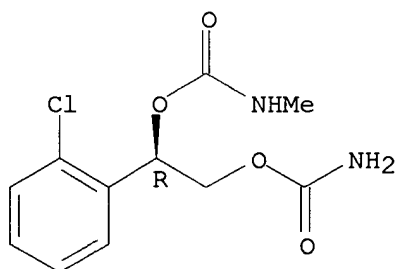
10/081,606



RN 194085-66-0 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate),
(1R)- (9CI) (CA INDEX NAME)

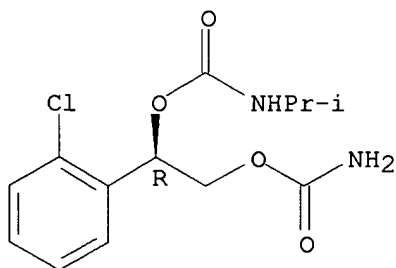
Absolute stereochemistry. Rotation (+).



RN 194085-67-1 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-
chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

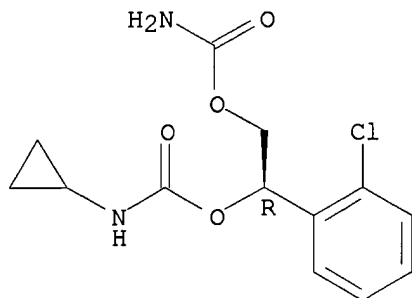


RN 194085-68-2 USPATFULL

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-
chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

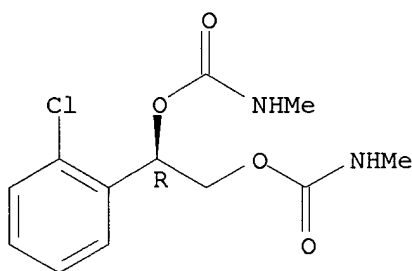
10/081,606



RN 194085-69-3 USPATFULL

CN 1,2-Ethanol, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

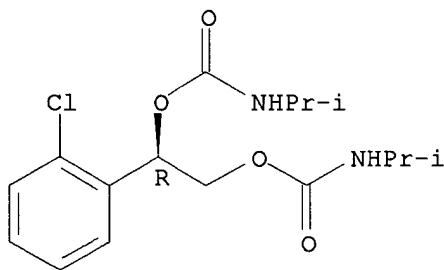
Absolute stereochemistry.



RN 194085-70-6 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

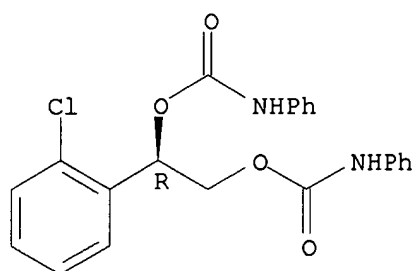


RN 194085-71-7 USPATFULL

CN 1,2-Ethanol, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

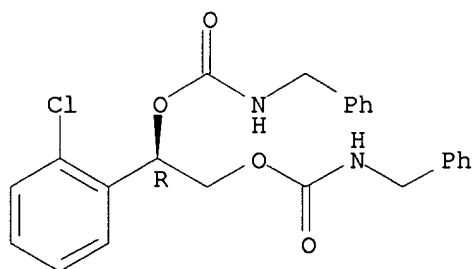
10/081,606



RN 194085-72-8 USPATFULL

CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 3 OF 6 USPATFULL

AN 2000:105942 USPATFULL

TI Halogen substituted carbamate compounds from 2-phenyl-1, 2-ethanediol

IN Choi, Yong Moon, Towaco, NJ, United States

Kim, Min Woo, Montvale, NJ, United States

Park, Jeonghan, Flanders, NJ, United States

PA SK Corporation, Fairfield, NJ, United States (U.S. corporation)

PI US 6103759 20000815

AI US 1999-349850 19990708 (9)

RLI Continuation of Ser. No. US 1998-220494, filed on 23 Dec 1998 which is a division of Ser. No. US 1997-781101, filed on 9 Jan 1997, now patented, Pat. No. US 5854283, issued on 29 Dec 1998 which is a continuation-in-part of Ser. No. US 1996-586497, filed on 16 Jan 1996, now patented, Pat. No. US 5698588, issued on 16 Dec 1997

DT Utility

FS Granted

EXNAM Primary Examiner: Shippen, Michael L.

LREP Gibbons, Del Deo, Dolan, Griffinger & Vecchione

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 545

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The optically pure forms of monocarbamates of halogenated 2-phenyl-1,2-ethanediol and dicarbamates of 2-phenyl-1,2-ethanediol have been found to be effective in the treatment of disorders of the central nervous system, especially as anti-convulsive or anti-epileptic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

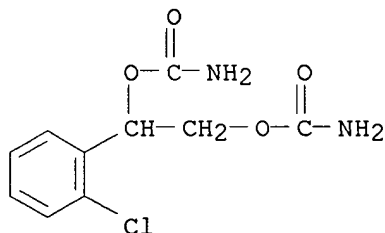
10/081,606

IT 194085-57-9P 194085-58-0P 194085-59-1P
194085-60-4P 194085-61-5P 194085-62-6P
194085-63-7P 194085-64-8P 194085-65-9P
194085-66-0P 194085-67-1P 194085-68-2P
194085-69-3P 194085-70-6P 194085-71-7P
194085-72-8P

(prepn. of 2-(halophenyl)-2-hydroxyethyl carbamate and dicarbamate
antiepileptics and anticonvulsants)

RN 194085-57-9 USPATFULL

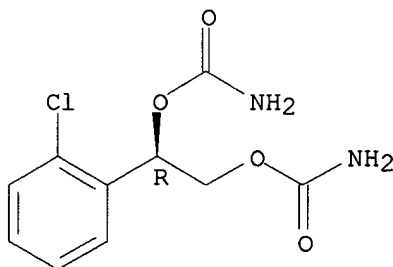
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-58-0 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

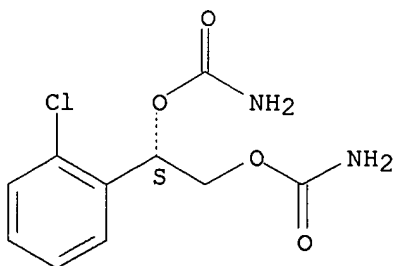
Absolute stereochemistry. Rotation (+).



RN 194085-59-1 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

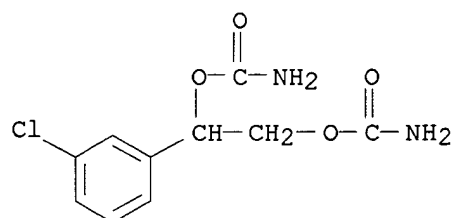
Absolute stereochemistry. Rotation (-).



RN 194085-60-4 USPATFULL

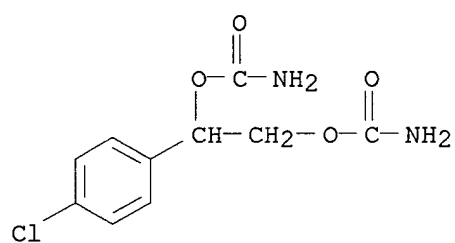
CN 1,2-Ethanediol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

10/081,606



RN 194085-61-5 USPATFULL

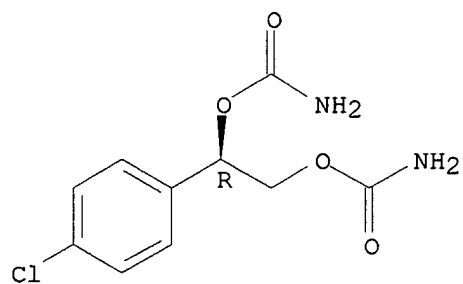
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-62-6 USPATFULL

CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

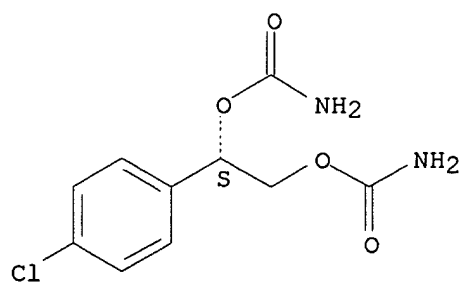
Absolute stereochemistry. Rotation (-).



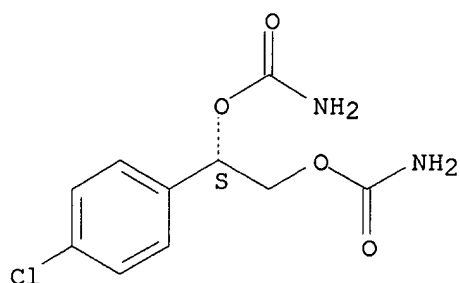
RN 194085-63-7 USPATFULL

CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

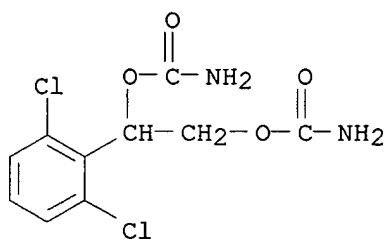


10/081,606



RN 194085-64-8 USPATFULL

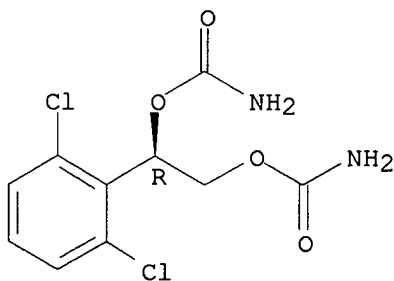
CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-65-9 USPATFULL

CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

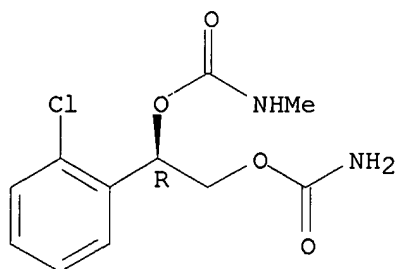


RN 194085-66-0 USPATFULL

CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

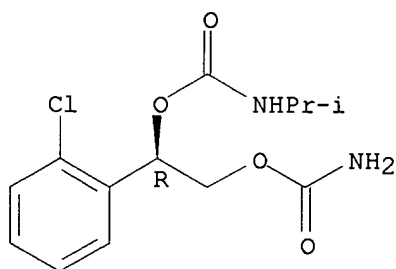
10/081,606



RN 194085-67-1 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

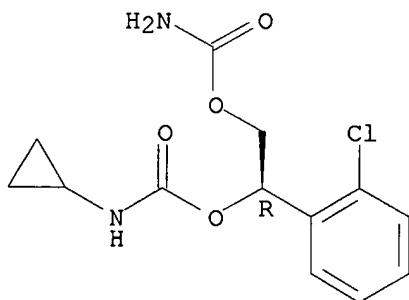
Absolute stereochemistry. Rotation (+).



RN 194085-68-2 USPATFULL

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

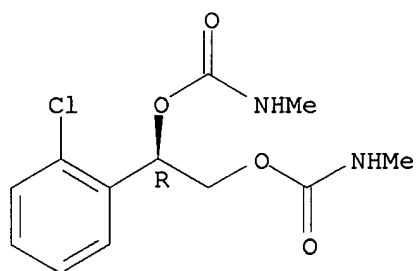


RN 194085-69-3 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

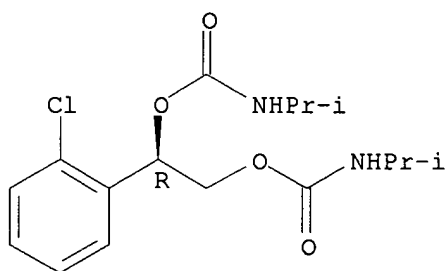
10/081,606



RN 194085-70-6 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

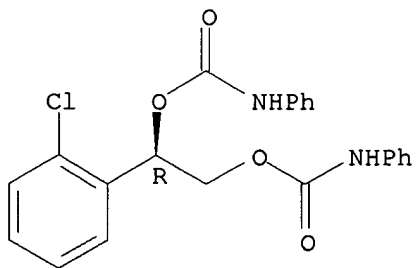
Absolute stereochemistry. Rotation (+).



RN 194085-71-7 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI) (CA INDEX NAME)

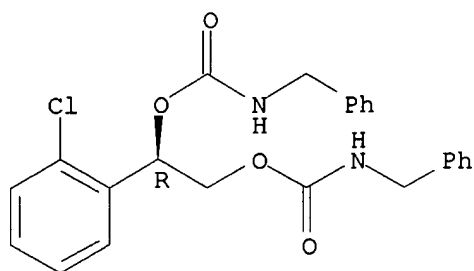
Absolute stereochemistry.



RN 194085-72-8 USPATFULL

CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 4 OF 6 CA COPYRIGHT 2002 ACS DUPLICATE 2
 AN 130:81295 CA
 TI Preparation of 1-halophenyl-1,2-ethanediol (di)carbamates as
 anticonvulsants
 IN Choi, Yong Moon; Kim, Min Woo; Park, Jeonghan
 PA Yukong Limited, S. Korea
 SO U.S., 8 pp., Cont.-in-part of U.S. 5,698,588.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5854283	A	19981229	US 1997-781101	19970109
	US 5698588	A	19971216	US 1996-586497	19960116
	CA 2242865	AA	19970724	CA 1997-2242865	19970116
	CN 1208402	A	19990217	CN 1997-191722	19970116
	CN 1077567	B	20020109		
	RU 2171800	C2	20010810	RU 1998-115573	19970116
	JP 2002515029	T2	20020521	JP 1997-525878	19970116
	US 6103759	A	20000815	US 1999-349850	19990708
	US 6127412	A	20001003	US 1999-349852	19990708
	US 2001034365	A1	20011025	US 2001-774736	20010131
PRAI	US 1996-586497	A2	19960116		
	US 1997-781101	A	19970109		
	WO 1997-KR6	W	19970116		
	US 1998-220494	A1	19981223		

OS MARPAT 130:81295

AB RCH(OR7)CH2O2CR8 [I; R = halophenyl; R7 = H and R8 = NR1R2; R7 = CONR3R4 and R8 = NR5R6; R1-R6 = H, alkyl, (un)substituted phenylalkyl] were prepd. Thus, 2-ClC6H4CH(OH)CH2OH was treated with NaOCN and MeSO3H to give 2-ClC6H4CH(O2CNH2)CH2O2CNH2. Data for biol. activity of I were given.

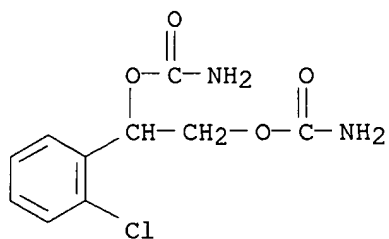
IT **194085-57-9P 194085-58-0P 194085-59-1P**
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194085-63-7P 194085-64-8P 194085-65-9P
194085-66-0P 194085-67-1P 194085-68-2P
194085-69-3P 194085-70-6P 194085-71-7P
194085-72-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 1-halophenyl-1,2-ethanediol (di)carbamates as anticonvulsants)

RN 194085-57-9 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

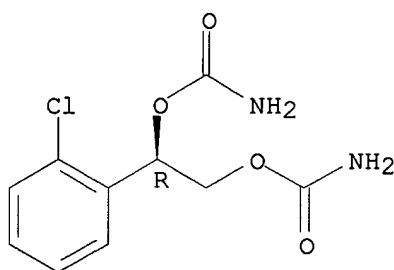
10/081,606



RN 194085-58-0 CA

CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

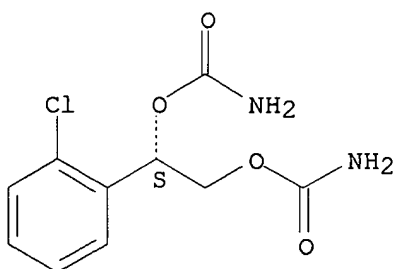
Absolute stereochemistry. Rotation (+).



RN 194085-59-1 CA

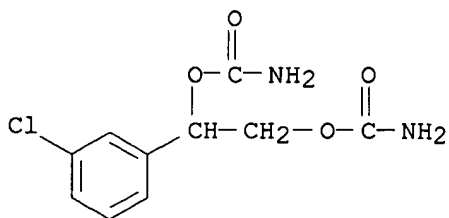
CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 194085-60-4 CA

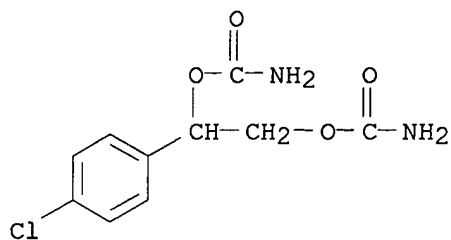
CN 1,2-Ethanedithiol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-61-5 CA

10/081,606

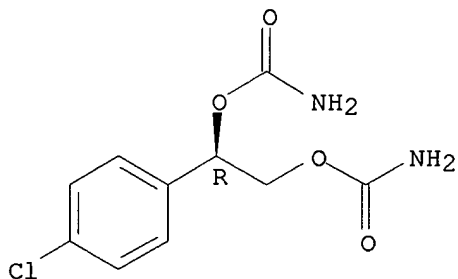
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-62-6 CA

CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

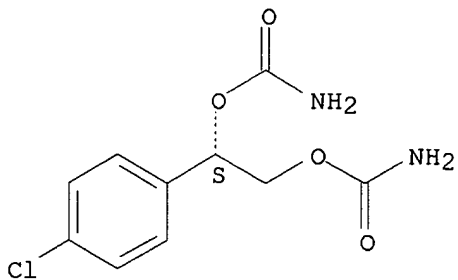
Absolute stereochemistry. Rotation (-).



RN 194085-63-7 CA

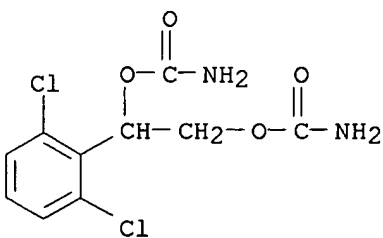
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

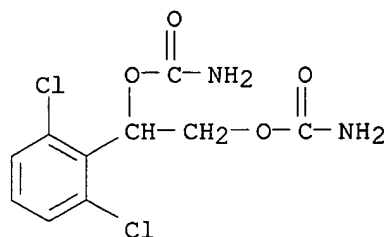


RN 194085-64-8 CA

CN 1,2-Ethanediol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

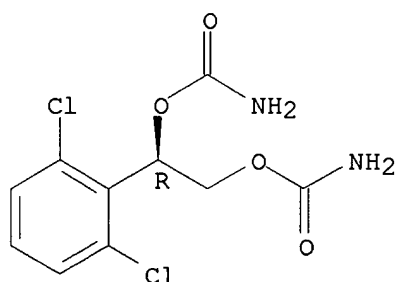


10/081,606



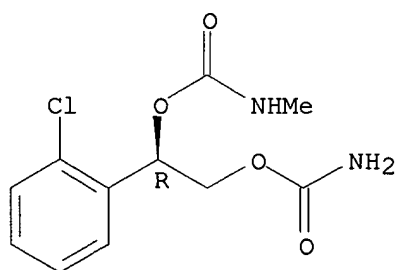
RN 194085-65-9 CA
CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 194085-66-0 CA
CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

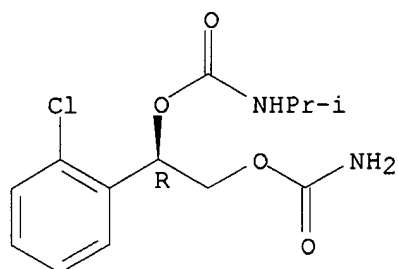
Absolute stereochemistry. Rotation (+).



RN 194085-67-1 CA
CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

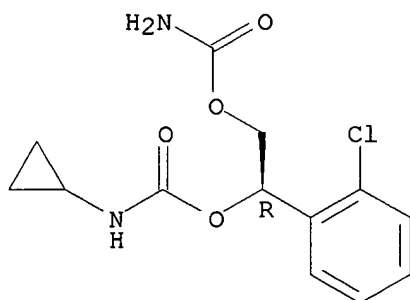
10/081,606



RN 194085-68-2 CA

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

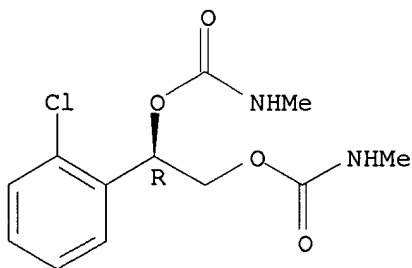
Absolute stereochemistry. Rotation (+).



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CN 1,2-Ethanedione, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

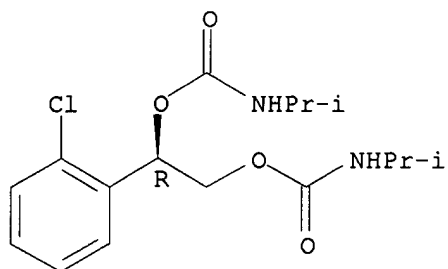


RN 194085-70-6 CA

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

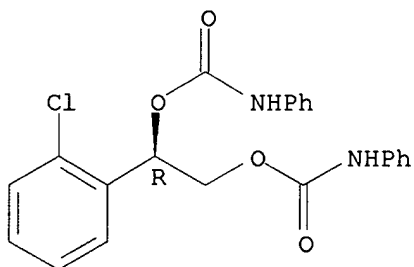
Absolute stereochemistry. Rotation (+).

10/081,606



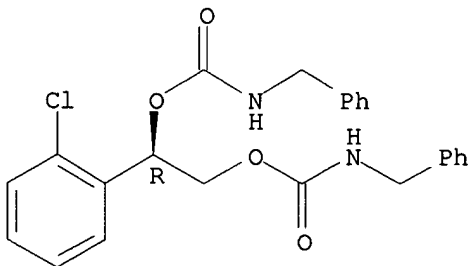
RN 194085-71-7 CA
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 194085-72-8 CA
CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



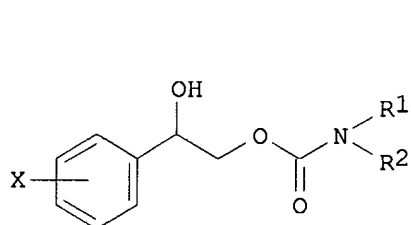
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 6 CA COPYRIGHT 2002 ACS
AN 127:176276 CA
TI Preparation of 2-(halophenyl)-2-hydroxyethyl carbamate and dicarbamate
antiepileptics and anticonvulsants
IN Choi, Yong Moon; Kim, Min Woo; Park, Jeong Han
PA Yukong Ltd, S. Korea
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent

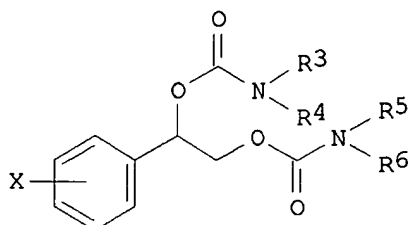
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LA English
FAN.CNT 3

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PI	WO 9726241	A1	19970724	WO 1997-KR6	19970116
	W: AU, CA, CN, JP, RU				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5698588	A	19971216	US 1996-586497	19960116
	AU 9713205	A1	19970811	AU 1997-13205	19970116
	AU 724812	B2	20000928		
	EP 907635	A1	19990414	EP 1997-900794	19970116
	R: BE, CH, DE, ES, FR, GB, IT, LI, SE				
	RU 2171800	C2	20010810	RU 1998-115573	19970116
	JP 2002515029	T2	20020521	JP 1997-525878	19970116
PRAI	US 1996-586497	A	19960116		
	US 1997-781101	A	19970109		
	WO 1997-KR6	W	19970116		
OS	MARPAT 127:176276				
GI					



I



II

AB The title carbamates [I; R1, R2 = (un)substituted (un)branched C1-4 alkyl; X = halogen; there may be 1-5 halogen substituents on the Ph moiety] and dicarbamates [II; R3-R6 = (un)substituted (un)branched C1-4 alkyl], useful as antiepileptics and anticonvulsants, are prepd. Thus, 1-(2,6-dichlorophenyl)-1,2-ethanediol was reacted with sodium cyanate, producing II (R3-R6 = H, X = 2,6-dichloro), m.p. 160-162.degree., which demonstrated a ED50 of 7.4 mg/kg for the prevention of electroshock-induced convulsion in mice.

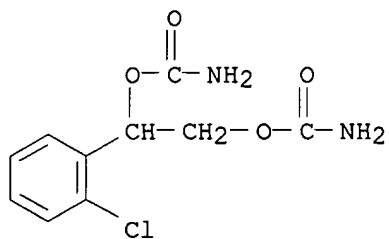
IT **194085-57-9P 194085-58-0P 194085-59-1P**
194085-60-4P 194085-61-5P 194085-62-6P
194085-63-7P 194085-64-8P 194085-65-9P
194085-66-0P 194085-67-1P 194085-68-2P
194085-69-3P 194085-70-6P 194085-71-7P
194085-72-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 2-(halophenyl)-2-hydroxyethyl carbamate and dicarbamate antiepileptics and anticonvulsants)

RN 194085-57-9 CA

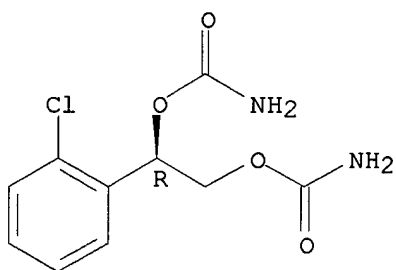
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)

10/081,606



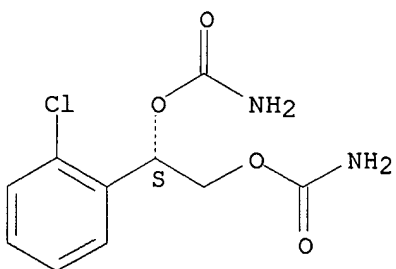
RN 194085-58-0 CA
CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

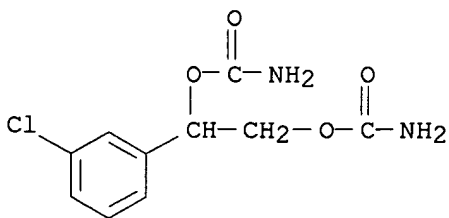


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CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



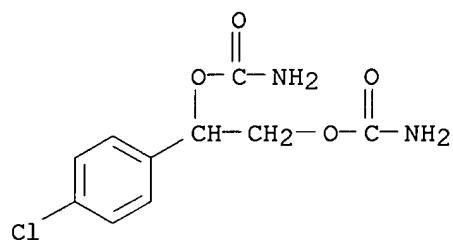
RN 194085-60-4 CA
CN 1,2-Ethanedithiol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-61-5 CA

10/081,606

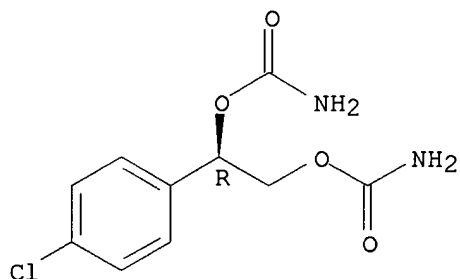
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-62-6 CA

CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

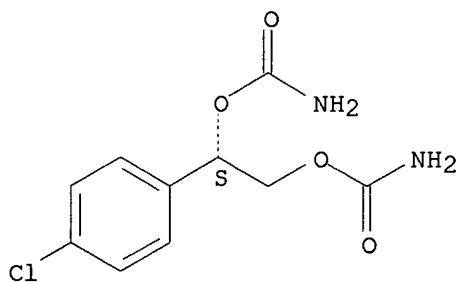
Absolute stereochemistry. Rotation (-).



RN 194085-63-7 CA

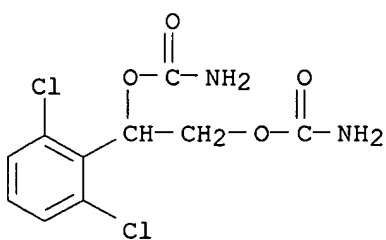
CN 1,2-Ethanediol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

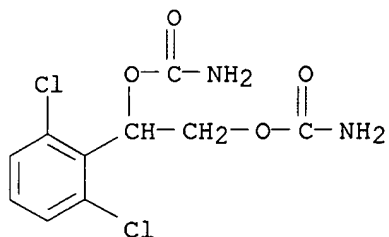


RN 194085-64-8 CA

CN 1,2-Ethanediol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



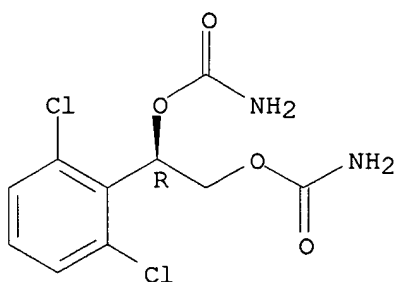
10/081,606



RN 194085-65-9 CA

CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

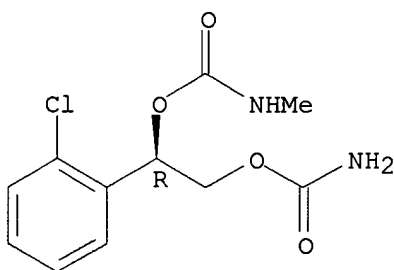
Absolute stereochemistry. Rotation (+).



RN 194085-66-0 CA

CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

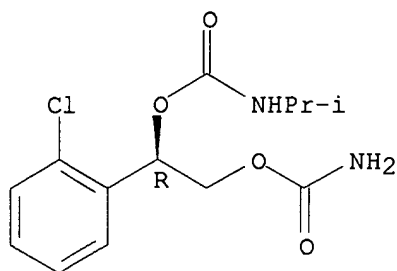


RN 194085-67-1 CA

CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

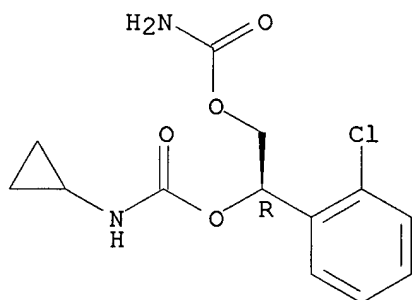
10/081,606



RN 194085-68-2 CA

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

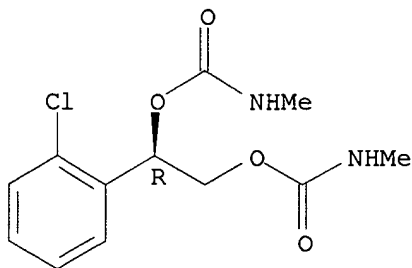
Absolute stereochemistry. Rotation (+).



RN 194085-69-3 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

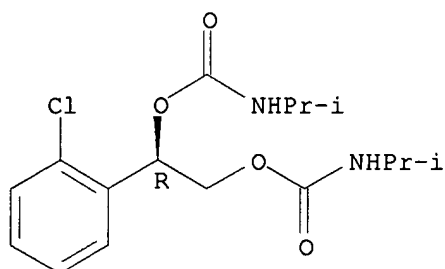


RN 194085-70-6 CA

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

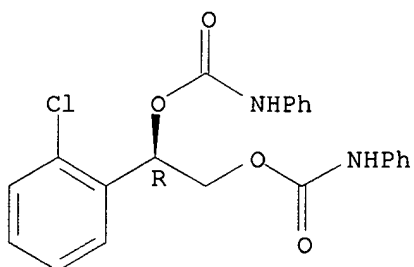
10/081,606



RN 194085-71-7 CA

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI)
(CA INDEX NAME)

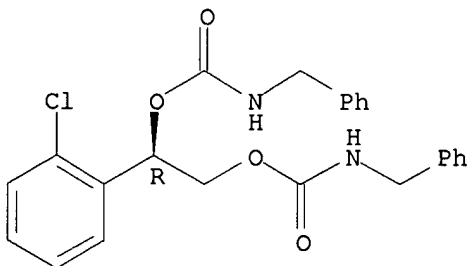
Absolute stereochemistry.



RN 194085-72-8 CA

CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 6 OF 6 USPATFULL

AN 97:118078 USPATFULL

TI Halogen substituted carbamate compounds from 2-phenyl-1,2-ethanediol

IN Choi, Yong Moon, Towaco, NJ, United States

Kim, Min Woo, Montville, NJ, United States

PA Yukong Limited, Seoul, Korea, Republic of (non-U.S. corporation)

PI US 5698588 19971216

AI US 1996-586497 19960116 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Shippen, Michael L.

10/081,606

LREP Abelman, Frayne & Schwab
CLMN Number of Claims: 7
ECL Exemplary Claim: 1,3
DRWN No Drawings
LN.CNT 351

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The pure enantiomeric forms, as well as enantiomeric mixtures excluding the racemic mixture of monocarbamates of 2-phenyl-1,2-ethanediol substituted with more than one halogen atom on the phenyl ring and dicarbamates of 2-phenyl-1,2-ethanediol substituted with more than one halogen atom on the phenyl ring have been found to be effective in the treatment of disorders of the central nervous system.

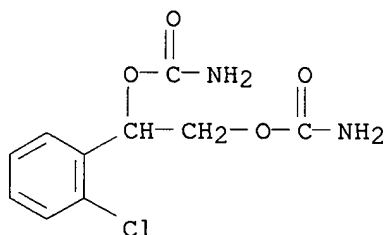
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 194085-57-9P 194085-58-0P 194085-59-1P
194085-60-4P 194085-61-5P 194085-62-6P
194085-63-7P 194085-64-8P 194085-65-9P
194085-66-0P 194085-67-1P 194085-68-2P
194085-69-3P 194085-70-6P 194085-71-7P
194085-72-8P

(prepn. of 2-(halophenyl)-2-hydroxyethyl carbamate and dicarbamate antiepileptics and anticonvulsants)

RN 194085-57-9 USPATFULL

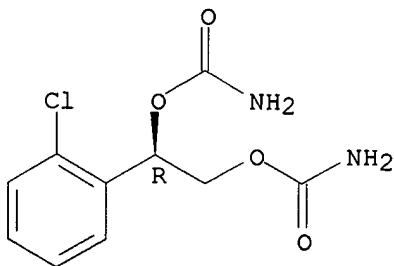
CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-58-0 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

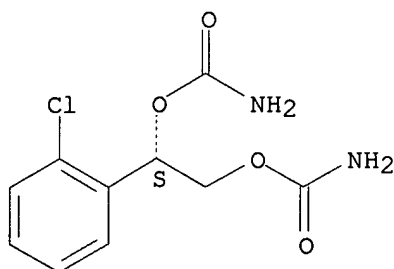


RN 194085-59-1 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

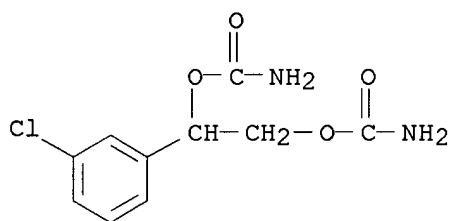
Absolute stereochemistry. Rotation (-).

10/081,606



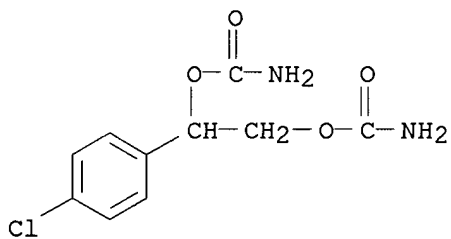
RN 194085-60-4 USPATFULL

CN 1,2-Ethanedithiol, 1-(3-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-61-5 USPATFULL

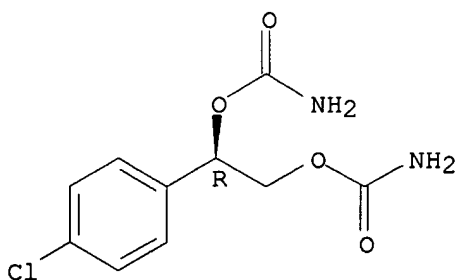
CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-62-6 USPATFULL

CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



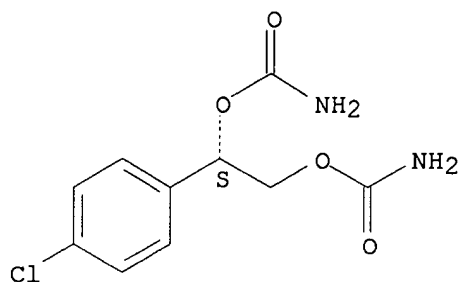
RN 194085-63-7 USPATFULL

CN 1,2-Ethanedithiol, 1-(4-chlorophenyl)-, dicarbamate, (1S)- (9CI) (CA INDEX NAME)

10/081,606

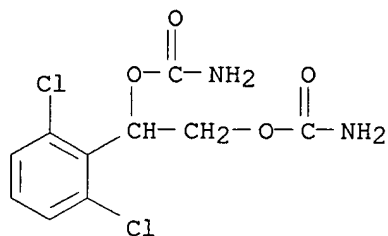
NAME)

Absolute stereochemistry. Rotation (+).



RN 194085-64-8 USPATFULL

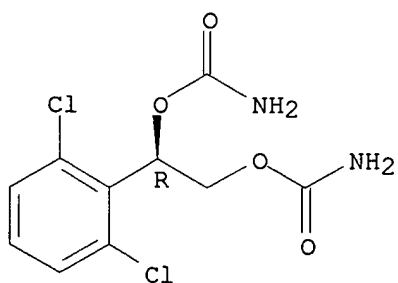
CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate (9CI) (CA INDEX NAME)



RN 194085-65-9 USPATFULL

CN 1,2-Ethanedithiol, 1-(2,6-dichlorophenyl)-, dicarbamate, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

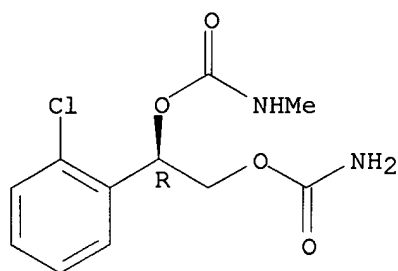


RN 194085-66-0 USPATFULL

CN 1,2-Ethanedithiol, 1-(2-chlorophenyl)-, 2-carbamate 1-(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

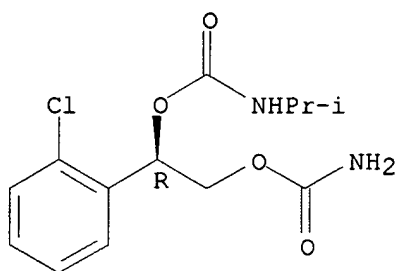
10/081,606



RN 194085-67-1 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

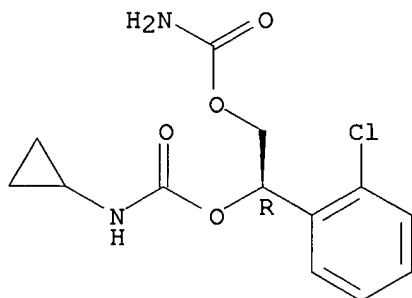
Absolute stereochemistry. Rotation (+).



RN 194085-68-2 USPATFULL

CN Carbamic acid, cyclopropyl-, (1R)-2-[(aminocarbonyl)oxy]-1-(2-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

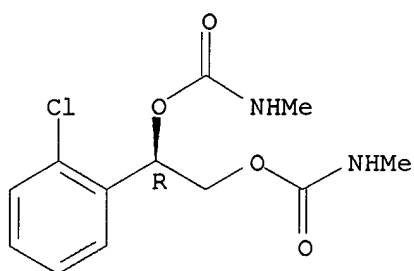


RN 194085-69-3 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(methylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

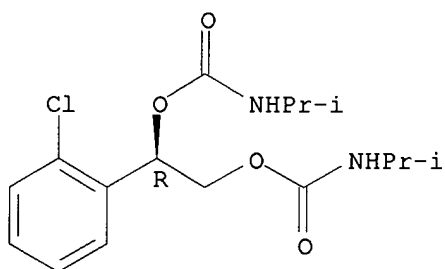
10/081,606



RN 194085-70-6 USPATFULL

CN Carbamic acid, (1-methylethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

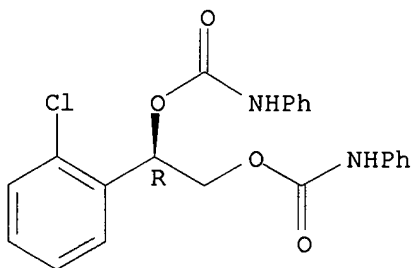
Absolute stereochemistry. Rotation (+).



RN 194085-71-7 USPATFULL

CN 1,2-Ethanediol, 1-(2-chlorophenyl)-, bis(phenylcarbamate), (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 194085-72-8 USPATFULL

CN Carbamic acid, (phenylmethyl)-, (1R)-1-(2-chlorophenyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/081,606

